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Headquarters, Joint Task Force SEVEN
APO 437, San Francisco, California
24 April 1958

Operation Order 8-58 (SYCAMORE Event), *Sanitized Version*

1. SITUATION

- a. Information and instructions contained herein supplement JTF SEVEN Operation Order 1-58, dated 1 October 1957, with changes thereto.
- b. SYCAMORE will be a pre-dawn detonation on a barge off NAMU (Charlie) Island [redacted] at BIKINI Atoll. The date/time of detonation will be announced later.
- c. The effects of SYCAMORE are expected to reach a magnitude such as to require pre-shot evacuation of BIKINI Atoll. Therefore, all personnel at BIKINI Atoll will be evacuated except those authorized to remain in Station 70 and the Communications Building 204 on NAN.
- d. All ships and aircraft will be evacuated from the BIKINI Lagoon. Boats and other water craft will be evacuated to NAN.
- e. SYCAMORE is expected to produce significant fallout, therefore, post-shot cloud tracking and radsafe re-entry surveys will be necessary. Search areas will be delineated by this Headquarters on D-3 and D-2. Search of the danger area will commence on D-2.

2. SPECIFIC INSTRUCTIONS

a. TG 7.1

- (1) Position the SYCAMORE device [redacted] BIKINI Atoll, for detonation about 1 May 1958. Specific authority to arm and detonate the device will be obtained from CJTF SEVEN.
- (2) On order of CJTF SEVEN conduct the initial post-shot radsafe and damage survey.

b. TG 7.3

- (1) Position one destroyer in the vicinity of RONGELAP during period H-hour to H+12 hours prepared to evacuate the natives, should the need arise.
- (2) Position the USS BOXER in accordance with paragraph 31b of Annex F to JTF SEVEN Operation Order 1-58. BOXER will be on station not later than H minus one hour.
- (3) Position all other 7.3 ships so as to be on station by H minus 30 minutes.
- (4) Provide aircraft to perform radsafe reconnaissance and barrier patrol as required.

c. TG 7.4

- (1) On order of CJTF SEVEN provide aircraft to perform post-shot cloud tracking missions as required.
- (2) Ensure that participating aircraft are in position by H minus 5 minutes. CJTF SEVEN will be notified at any time that participating aircraft will not be in position to accomplish their assigned missions at H-hour.
- (3) Provide cloud sampling aircraft as required.

DECLASSIFIED WITH DELETIONS BY CHIEF, ISCM

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3. GENERAL INSTRUCTIONS

- a. See Appendix 7 to Annex N, Emergency and Routine Evacuation and Re-entry plan, attached.
- b. All personnel located in the vicinity of BIKINI Atoll (those ashore and those evacuated) are within viewing distance of the SYCAMORE fireball, and consequently are susceptible to eye damage. Therefore, all personnel who are not supplied with protective goggles will turn away from the detonation point and close their eyes during the time of burst. At least ten seconds should be allowed before looking at the burst.
- c. The JTF SEVEN CHECK LIST-BIKINI AND ENIWETOK EVENTS, dated 29 March 1958, is changed as follows for SYCAMORE Event:

- (1) Delete the following items: 5, 11, 25.
- (2) Change the following items to read as indicated below:

ITEM	DAY	HOOR	EVENT	JTF-7 ACTION
5a	D-2	0830	CJTF-7 informs CTG 7.4 of WB-50 cloud tracking requirements.	Ensure that instructions are passed to TG 7.4 (RadSafe is resp).
8	Same	1500	Same	Same
9	Same	1500	Same	Same
10	Same	1900	Same	Same
12	D-day	Early morning	Same	Same
13	Same	2100 (about)	Same	Same
15	D-day	0200 (about)	Same	J-4 Evac Officer reports results of evac and muster to JTF-7 Watch Officer
16	D-day	0300 (about)	Same	Same
19	Same	Same	CJTF-7 confirms rqmt to CTG 7.4 concerning WB-50 cloud tracking flight. Ref Item # 5a.	
21	D-day	0400	Same	Same
22	Same	H-30 min.	Same	Same
29.	Same	H-5 min	Same	Same

4. COMMAND

- a. Command of the operation will be exercised by CJTF SEVEN from the JTF SEVEN Headquarters on ELMER Island.
- b. Command Post of CTG 7.1 - NAN (Station 70)
- c. Command Post of CTG 7.5 - USNS AINSWORTH

5. COMMUNICATIONS

- a. The frequencies authorized for use during SYCAMORE are listed in Annex A, attached hereto.
- b. The time-count-down will be provided as outlined in paragraph 5, SCI 10-14.
- c. General instructions contained in paragraph 7b, part 4 of Annex "I" to JTF-7 Operation Order 1-58 apply.
- d. The radio silence period for SYCAMORE is from H-3 minutes to H+2 minutes. All frequencies and communications systems not listed in Annex A hereto will be shut down during this radio silence period.

ADDENDA

Annex A, Frequency Plan,
SYCAMORE Event
App 7 to Annex N, Emergency
& Routine Evacuation and
Re-entry Plan.

A. R. LUEDECKE
Major General, USAF
Commander

DISTRIBUTION:

CTG 7.1 (25)
CTG 7.2 (5)
CTG 7.3 (25)
CTG 7.4 (10)
CTG 7.5 (12)
TG 7.3 Det (3)

OFFICIAL:

Thomas S. Jeffrey Jr.
THOMAS S. JEFFREY, JR.
Colonel, USAF
ACofS, J-3

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Headquarters, Joint Task Force SEVEN
 APO 437
 San Francisco, California
 24 April 1958

Annex A to Joint Task Force SEVEN OpnO 8-58 (SYCAMORE EVENT)
FREQUENCY PLAN-SYCAMORE EVENT

1. The following circuits and frequencies are authorized to operate during the "Radio Silence" period from H-3 to H+2 minutes for SYCAMORE EVENT:

<u>"J"</u>	<u>FREQUENCY</u>	<u>PROJ OR TG</u>	<u>TX LOCATION</u>	<u>REMARKS</u>
J-101	906 mc 952 mc	TG 7.5 " "	NAN ELMER	Tropo "
J-118.1 .3 .4	9090 mc 2800 mc 2800 mc	Proj 6.5 " " " "	FRED FRED RONGELAP	AN/MPG-1 SCR-584 SCR-584
J-120	560 mc	Prog 22	ZERO SITE NAN	Pulse Mod
J-122	1285 mc	WADC	NAN	AN/SPS-6
J-130.1	1-25 mc	6.9	WAKE & KUSAIE	Ionospheric studies, sweep band every 45 seconds (Ionospheric Study)
J-130.3	11.655 mc 32.5 mc 139.32 mc 370.0 mc 780.0 mc	Proj 6.4 " " " " " " " "	Wotho " " " "	" " " " "
J-133.6 J-133.7	153.89 mc 156.51 mc	TG 7.1 TU-5	NAN "	Count-down Radio Tone
J-145.2 J-145.4 J-145.5	164.025 mc 170.125 mc 164.475 mc 170.625 mc 164.625 mc 168.975 mc	TG 7.1 " " TG 7.1 " " TG 7.1 " "	Bikini " Bikini " Bikini "	Admin (Base) " (Mobile) TU-2 (Base) " (Mobile) TU-4 (Base) " (Mobile)
J-147.1	2740 mc 2760 mc	Proj 5.1 " "	FRED B-52	AN/MSQ-1A Beacon
J-158	9375 mc	Proj 5.1	B-52	Radar
J-174.1 174.2	153.89 mc 243.0 mc	TG 7.1 " "	NAN "	Count-down "
J-184.2	3850 ± 50 mc 4050 ± 50 mc	Proj 34.1 " "	ZERO SITE " "	(Diagnostic Telemetry)
J-194A J-194B	2345 kc 2370 kc	Prog 22 " " Prog 22 " "	ZERO SITE NAN ZERO SITE NAN	(Diagnostic Telemetry) (Diagnostic Telemetry)
J-196.1 .2 .3	9317 ± 87 mc " " " "	Proj 6.6 " " " "	FRED KWAJALEIN RONGELAP	AN/CPS-9 " "

<u>"J"</u>	<u>FREQUENCY</u>	<u>PRIO. OR TG</u>	<u>TX LOCATION</u>	<u>REMARKS</u>
J-232	1695 mc 1855 mc	TG 7.2 TG 7.5	FRED, DAVID ELMER	Microwave "
J-315	300.5 mc 322.5 mc	TG 7.5 TG 7.3	NAN BOXER	AN/TRC Ciphony " "
J-328	302.5 mc 304.5 mc 324.5 mc 326.5 mc	TG 7.5 " " TG 7.5 TG 7.3	NAN " AINSWORTH BOXER	AN/TRC to ships " " " AN/TRC to NAN " " "
J-418.2	2760-2820 mc 9000-9160 mc	TG 7.4 " "	FRED "	GCA Search GCA Approach
J-420.4 .5 .6	352 kc 308 kc 330 kc	TG 7.4 " " " "	KAPINGAMARANGI KUSAIE UTERIK	LF Homer " " " "
J-446.2	243.0 mc 238.4 mc	TG 7.4 " "	Weather Is. " "	
J-421	1012 mc 1077 mc	TG 7.4 " "	FRED ACFT	TACAN (Chan 53) "
J-422	1030 mc 1090 mc	TG 7.4 " "	FRED ACFT	IFF "
J-428	249.8 mc	Proj 5.1/40C	FRED/B52	Special Control (Silent H-5 sec to H Hour)
J-446.2	243.0 mc 238.4 mc	TG 7.4 " "	Weather Is " "	

2. The following circuits and frequencies are authorized to operate during the "silent period" only in case of emergency or urgent necessity:

J-115	52.1 mc	TG 7.5	Boat Pool, ELMER-NAN
J-159	143.10 mc 149.40 mc	TU-3	Air/Ground
J-221	41.9, 43.5 mc	TG 7.2, 7.5	Military Police
J-301	277.8 mc 6445 kc 2744 kc 5475 kc	TG 7.3	Tactical
J-303	4062 kc 9117.5 kc	TG 7.3	Ship-Shore
J-309	500 kc	All	Distress
J-310	3023.5 kc	All	Search & Rescue
J-311	121.5 mc 243.0 mc	All	Distress

<u>"J"</u>	<u>FREQUENCY</u>	<u>PROJ OR TG</u>	<u>TX LOCATION</u>	<u>REMARKS</u>
J-319A	5725.5 kc 9009.5 kc	TG 7.3	Acft Control & Report	
J-326	52.8 mc 51.6 mc 54.4 mc	TG 7.5, 7.3	Boats in distress	
J-327	236.6 mc	TG 7.3	Helicopters in distress, PIKING	
J-331	52.4 mc	TG 7.3	RADSAFE	
J-412	173.575 mc	TG 7.4	Fire-Crash	
J-417	236.6, 257.0 mc 275.8, 243.0 mc 126.18, 121.5 mc	TG 7.4	Emergencies only	
J-428	269.8 mc 282.8 mc 299.6 mc 310.6 mc 320.2 mc 325.6 mc 352.2 mc 353.0 mc 355.4 mc 369.8 mc 373.8 mc 381.8 mc 386.6 mc 387.4 mc	TG 7.4 " " " " " " " " " " " " "	FRED & Acft " " " " " " " " " " " " "	Air Control " " " " " " " " " " " " "
(NOTE: Exact frequency plan to be derived jointly by TG 7.1 and TG 7.4)				
J-432	165.125 mc	TG 7.4	Maint Expeditor	
J-439	3247.5 kc 5145.0 kc 9062.5 kc 3340.0 kc 5227.0 kc 6780.0 kc 9270.0 kc 14,422.5 kc	TG 7.4	FRED	Microbarograph readings at H+2
J-441	3067 kc 4765 kc 5703 kc	TG 7.4	Air Control	
J-445	236.6 mc 243.0 mc 363.8 mc	TG 7.4	Acft in distress	NAN Tower

3. Circuits and frequencies not specifically designated in paragraphs 1 or 2 will not be used during the "silent period". Where transmitters may be keyed accidentally, action will be taken to disable the transmitters during the "silent period".

OFFICIAL:

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Headquarters, Joint Task Force SEVEN
APO 437, San Francisco, California
24 April 1958

APPENDIX 7 TO ANNEX N, EMERGENCY AND ROUTINE EVACUATION RE-ENTRY PLAN TO
JTF SEVEN OPERATION ORDER 8-58
SYCAMORE EVENT

1. Musters will be conducted at Eniwetok and Bikini Atolls. A muster status report will only be required at 1900 on D-1. Final reports will be made by Task Group Commanders as soon as evacuation or accounting of personnel of the task groups has been completed.
2. The entire population of Bikini Atoll less specified personnel who are authorized to remain in Station 70 and Communications Building 204 will be evacuated.
3. Evacuation ships at Bikini Atoll will be prepared to receive personnel on D-1. Task groups will furnish embarkation times to appropriate ship. All personnel will be embarked in USS BOXER and USNS AINSWORTH per previous allocation of ship spaces made by CTG 7.3.
4. Task Group Commanders will advise the JTF SEVEN Evacuation Officer regarding safety of personnel at H+20 minutes.
5. Re-entry will be accomplished as directed by CJTF-7.
6. Allocation of ship space in the event of emergency evacuation at Eniwetok Atoll will be contained in CTG 7.3 Operation Order for SYCAMORE Event.
7. A destroyer will be stationed near Rongelap to permit immediate evacuation if required.